

Amendments to the Claims

Please amend the claims as follows:

1 1. (Currently Amended) A communication system for serving non-cordless land line
2 station devices located within a building structure, that said system enables said remote
3 non-cordless land-line station devices positioned within said building structure of said
4 ~~system~~ to make and receive calls over a wireless network using a cell phone, coupled in
5 series signal-wise between said wireless network and said ~~remote~~ of the non-cordless
6 land-line station devices, said system comprising:

7 a cell phone base coupled to a first wireless interface; said cell phone base is
8 adapted to be coupled signal-wise to said cell phone;

9 a plurality of remote wireless interfaces;

10 each said ~~remote~~ non-cordless land-line station device being individual to and
11 coupled to a different one of said remote wireless interfaces; and

12 apparatus responsive to the receipt of an incoming call from said wireless network
13 for extending said incoming call via said cell phone and said first wireless interface of said
14 cell phone base ~~directly~~ to one of said ~~remote~~ of the non-cordless land-line station devices
15 via the remote wireless interface individual to said one non-cordless land-line station
16 device;

17 wherein said non-cordless land-line station device is ~~of the non-cordless type and is~~
18 operable to provide communication service when directly connected to a land-line instead
19 of a wireless interface.

1 2. (Currently Amended) The system of claim 1 characterized in that said apparatus for
2 extending further comprises:
3 apparatus that monitors said incoming call; and
4 apparatus that detects an on-hook signal at said one ~~remote~~ non-cordless land-line
5 station device for terminating said call.

1 3. (Currently Amended) The system of claim 1 characterized in that said system further
2 comprises:
3 apparatus responsive to the initiation of an outgoing call by a calling one of said
4 ~~remote~~ non-cordless land-line station devices for extending said outgoing call via the one
5 of said remote wireless interfaces unique to said calling ~~remote~~ non-cordless land-line
6 station device and via said first wireless interface of said cell phone base and via said cell
7 phone to a called station served by said remote wireless network.

1 4. (Currently Amended) The system of claim 1 characterized in that each said ~~remote~~
2 non-cordless land-line station device comprises any one of or any combination of:
3 non-cordless land-line telephones;
4 computers;
5 PDAs;
6 communication paths extending to other networks and/or network appliances;
7 fax machines;
8 fire, security and alarm detection devices;
9 printers; and

10 household appliances.

1 5. (Currently Amended) The system of claim 3 wherein said ~~remote~~ non-cordless land-
2 line station devices comprise ~~remote~~ non-cordless land-line telephones, said system
3 further comprising:

4 apparatus that detects an off-hook state of a calling one of said ~~remote~~
5 non-cordless land-line telephones;

6 apparatus that transmits ~~said~~ an off-hook signal from said calling ~~remote~~
7 non-cordless land-line telephone to said cell phone;

8 apparatus that activates said cell phone in response to the receipt of said
9 off-hook signal;

10 apparatus including said remote wireless interface associated with said calling
11 ~~remote~~ non-cordless land-line telephone for transmitting ~~said~~ a called station number to
12 said cell phone;

13 said cell phone being responsive to the receipt of said called station number for
14 initiating the establishment of a call via said wireless network to said called station;

15 apparatus for detecting an on-hook state of said called station or of said calling
16 ~~remote~~ non-cordless land-line telephone for transmitting a call end signal to said cell
17 phone; and

18 said cell phone being responsive to said receipt of said call end signal for ending
19 said call.

6. (Currently Amended) The system of claim 1 wherein said non-cordless land-line station devices comprise non-cordless land-line telephones and wherein said apparatus for extending said incoming call comprises:

apparatus including said cell phone for detecting the receipt of an incoming call from said wireless network;

apparatus including said cell phone responsive to said detecting for applying a ringing control signal to said first wireless interface associated with said cell phone base;

apparatus for transmitting said ringing control signal to said remote wireless interfaces individual to each of said ~~remote~~ non-cordless land-line telephones;

apparatus responsive to the receipt of said ringing control signal for applying ringing current to said ~~remote~~ non-cordless land-line telephones;

apparatus for generating an off-hook signal at a responsive one of ~~remote~~ non-cordless land-line telephones;

said off-hook signal is transmitted to said cell phone via said remote wireless interface individual to said responsive ~~remote~~ non-cordless land-line telephone;

said cell phone being responsive to the receipt of said off-hook signal for terminating the generation of said ringing control signal;

said remote wireless interfaces being responsive to the termination of said ringing control signal for termination ringing at said ~~remote~~ non-cordless land-line telephones;

said cell phone being effective to monitor said incoming call;

apparatus for detecting an on-hook state of said calling station of said wireless network or an off hook signal of said responsive ~~remote~~ non-cordless land-line telephone for transmitting a call end signal to said cell phone; and

24 said cell phone being responsive to said receipt of said call end signal for ending
25 said incoming call.

1 7. (Currently Amended) The system of claim 1 characterized in that said cell phone is
2 adapted to serve calls between said wireless network and said ~~remote~~ non-cordless land-
3 line telephones only when said cell phone is connected signal-wise to said base.

1 8. (Currently Amended) In a system having a first wireless interface adapted to be
2 coupled to a cell phone, said system further having a plurality of remote wireless
3 interfaces each of which is adapted to be individual to and coupled to an individual one of
4 a plurality of ~~remote~~ non-cordless land-line telephones located in a building structure of
5 said system;

6 said system further comprising:

7 apparatus for receiving indicia of a call request by either said first interface or by
8 one of said remote wireless interfaces; and

9 apparatus that extends said call request to the other of said first wireless interface
10 or said one remote wireless interface to establish a call connection between said cell-
11 phone and one of said ~~remote~~ non-cordless land telephones via said first wireless
12 interface and via the one of said remote wireless interface individual to said one ~~remote~~
13 non-cordless land line telephone;

14 wherein said non-cordless land-line telephone station device ~~is of the non-cordless~~
15 ~~type and~~ is operable to provide communication service if directly connected to a land-line
16 instead of a wireless interface.

1 9. (Currently Amended) The system of claim 8 characterized in that:
2 said apparatus for receiving is operable to receive said indicia via said first wireless
3 interface from said cell phone and to extend said call via one of said remote wireless
4 interface to one of said ~~remote~~ non-cordless land-line telephones; and
5 said apparatus for receiving is also operable to receive said indicia via one of said
6 remote wireless interfaces from one of said ~~remote~~ non-cordless land-line telephones and
7 to extend said call connection via said first wireless interface to said cell phone.

1 10. (Currently Amended) The apparatus of claim 8 wherein at least one of said remote
2 wireless interfaces is integrated into the one of said ~~remote~~ non-cordless land-line
3 telephones.

1 11. (Currently Amended) The apparatus of claim 8 including a plurality of ~~remote~~ non-
2 cordless land-line telephones each of which has a pair of tip and ring conductors adapted
3 to be connected to an individual one of a plurality of ~~other~~ remote wireless interfaces, and
4 at least one of said ~~remote~~ non-cordless land-line telephones includes conductors
5 connecting a handset of said at least one ~~remote~~ non-cordless land-line telephone to a
6 base of each said at least one ~~remote~~ non-cordless land-line telephone.

12 (Currently Amended) A method of operating a communication system adapted to enable ~~remote~~ non-cordless land-line station devices of said system to make and receive calls over a wireless network using a cell phone coupled in series between said wireless network and said ~~remote~~ non-cordless land-line station devices positioned within a structure (building), said method comprising the steps of:

[[-]]coupling a cell phone base to a first wireless interface,
coupling said base to said cell phone;
coupling each ~~remote~~ non-cordless land-line station device to a different one of a plurality of remote wireless interfaces; and
operating apparatus responsive to the receipt of an incoming call from said wireless network for extending said incoming call via said cell phone and said first wireless interface to one of said ~~remote~~ non-cordless land-line station devices via the remote wireless interface individual to said ~~one remote~~ non-cordless land-line station device;
wherein said non-cordless land-line station device is ~~of the non-cordless type and is~~ operable to provide communication service if directly connected to a land-line instead of a wireless interface.

13. (Currently Amended) The method of claim 12 further comprising the steps of:
monitoring said incoming call; and
operating said cell phone for detecting an on-hook signal generated by said ~~remote~~ non-cordless land-line station device for terminating said call.

1 14. (Currently Amended) The method of claim 12 further comprising the step of:
2 detecting the initiation of an outgoing call by at least one ~~remote~~ non-cordless land-
3 line station devices for extending said outgoing call via one of said remote wireless
4 interfaces and via first wireless interface of said cell phone base and via said cell phone to
5 a called station of said wireless network.

1 15. (Currently Amended) The method of said claim 12 characterized in that said ~~remote~~
2 non-cordless land-line station device comprises any one of or any combination of:
3 land-line telephones;
4 computers;
5 printers;
6 PDAs;
7 communication paths extending to other networks and/or network appliances;
8 fax machines;
9 fire, security and alarm detection devices; and
10 household appliances.

1 16. (Currently Amended) The method of claim 12 wherein said ~~remote~~ non-cordless
2 land-line station devices comprise ~~remote~~ non-cordless land-line telephones, and wherein
3 one of said wireless interfaces is integrated into one of said ~~remote~~ non-cordless land-line
4 telephones to which said one remote wireless interface is individual, said method further
5 comprising the steps of:

6 detecting an off-hook state of a calling one of said ~~remote~~ non-cordless land-line
7 telephones;

8 transmitting said off-hook signal from said calling ~~remote~~ non-cordless land-line
9 telephone via the remote wireless interface individual to said calling ~~remote~~ non-cordless
10 land-line telephone and further via said first wireless interface to said cell phone;

11 activating said cell phone in response to the receipt of said off-hook signal;

12 transmitting a called station number from said remote wireless interface individual
13 to said calling ~~remote~~ non-cordless land-line telephone to said cell phone via said first
14 interface; and

15 operating said cell phone responsive to the receipt of said called station number for
16 initiating the establishment of a call via said wireless network to said called station.

17. (Currently Amended) The method of claim 16 further including the steps of:

operating said cell phone for detecting an on-hook state of said called station or
said calling ~~remote~~ non-cordless land-line telephone; and

said cell phone being responsive to said detection of said call end signal for ending
said call.

18. (Currently Amended) The method of claim 12 wherein said ~~remote~~ non-cordless land-line station devices comprise ~~remote~~ non-cordless land-line telephones, characterized in that said system exchanges the following signals between said calling non-cordless remote land-line telephone and said cell phone during the serving of a call initiated by said calling ~~remote~~ non-cordless land-line telephone:

an off-hook signal generated by said calling ~~remote~~ non-cordless land-line telephone is transmitted via said remote wireless interface individual to said calling non-cordless ~~remote~~ land-line telephone to said cell phone via said first wireless interface;

said calling ~~remote~~ non-cordless land-line telephone dials the number of a called station to which said call is to be extended;

transmitting said dialed number via said remote wireless interface individual to said non-cordless calling telephone and further via said ~~first~~ remote wireless interface to said cell phone which transmits said dialed number to said wireless network for the establishment of a connection to said called station via said wireless network;

said cell phone monitors said call until an on-hook signal is detected at said calling ~~remote~~ non-cordless land-line telephone and/or at said called station; and

said cell phone is responsive to the detection of said on-hook signal to terminate the call between said calling ~~remote~~ non-cordless land-line telephones and said called station.

19. (Currently Amended) The method of claim 13 wherein said land-line station devices comprise non-cordless land-line telephones, characterized in that said system exchanges the following signals between said cell phone and a ~~remote~~ non-cordless land-line telephone during the serving of a call received by said cell phone from said wireless network;

in response to receipt of a call from said wireless network, said cell phone transmits a ringing control signal to said ~~remote~~ non-cordless land-line telephones via said remote wireless interfaces of said ~~remote~~ non-cordless land-line telephones;

said ringing control signal activates a ring generator in the remote wireless interfaces of said ~~remote~~ non-cordless land-line telephones to apply ringing current to said ~~remote~~ non-cordless land-line telephones;

the generation of an off-hook signal at a responding one of said ~~remote~~ non-cordless land-line telephones transmits a signal via said remote wireless interface individual to said responding one ~~remote~~ non-cordless land-line telephone and further via said first wireless interface of said cell phone to terminate the generation of said ringing control signal;

said cell phone terminates the generation of said ringing control signal to terminate ringing at said ~~remote~~ non-cordless land-line telephones;

said cell phone establishes a voice path between said cell phone and said responding one of said ~~remote~~ non-cordless land-line telephone; and

a said cell phone monitor said call and terminates said call upon the generation of an on-hook signal by said ~~remote~~ non-cordless land-line line telephone.

- 1 20. (Currently Amended) The method of claim 12 characterized in that the step of
- 2 operating said cell phone is effective to serve calls between said wireless network and
- 3 said ~~remote~~ non-cordless land-line telephones only when said cell phone is connected
- 4 signal-wise to said base to connect said cell phone with said first wireless interface via
- 5 said base.